SAFETY DATA SHEET
DISHWASH DETERGENT ALU - SUPER CONCENTRATE

According to Regulation (EU) No 453/2010

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name DISHWASH DETERGENT ALU - SUPER CONCENTRATE
Product No. FHSB7

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Detergent.
Uses advised against Not for use by hand.

1.3. Details of the supplier of the safety data sheet

Supplier PRIME SOURCE
PO BOX 15247
BIRMINGHAM
B22 3HN
+44 (0) 7039 401 465
info@prime-source.co.uk

1.4. Emergency telephone number

UK Environment Agency 24hour Advisory Service 0800 807060. Irish Environmental Protection Agency 1890 335599. This product is registered with the NPIS. Telephone : (+44) 0844 892 0111
24 Hour Medical Emergency Telephone Number (+44) 0870 190 6777

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (1999/45/EEC) C;R35.

2.2. Label elements

Contains POTASSIUM HYDROXIDE

Detergent Labelling:

< 5%	phosphates
	polycarboxylates
	Phosphonates

Labelling

Corrosive

Risk Phrases

R35	Causes severe burns.

Safety Phrases

S24/25	Avoid contact with skin and eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S60	This material and its container must be disposed of as hazardous waste.

2.3. Other hazards

This product does not contain any PBT or vPvB substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

SODIUM DI-SILICATE	**5-10%**
CAS-No.: 1344-09-8	**EC No.: 215-687-4**
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Eye Dam. 1 - H318	Classification (67/548/EEC) Xi;R38,R41.

POTASSIUM HYDROXIDE	**5-10%**
CAS-No.: 1310-58-3	**EC No.: 215-181-3**
Classification (EC 1272/2008) Acute Tox. 4 - H302 Skin Corr. 1A - H314	Classification (67/548/EEC) C;R35 Xn;R22

TETRAPOTASSIUM PYROPHOSPHATE	**1-5%**
CAS-No.: 7320-34-5	**EC No.: 230-785-7**
Classification (EC 1272/2008) Eye Irrit. 2 - H319	Classification (67/548/EEC) Xi;R36.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information
Remove victim immediately from source of exposure.

Inhalation
Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. If breathing stops, provide artificial respiration. Get medical attention if any discomfort continues.

Ingestion
DO NOT INDUCE VOMITING! Rinse mouth thoroughly. Place unconscious person on the side in the recovery position and ensure breathing can take place. Get medical attention if any discomfort continues.

Skin contact
Remove contaminated clothes and rinse skin thoroughly with water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

Eye contact
Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation.
Unlikely route of exposure. Product droplets in steam may after long exposure cause irritation to mouth throat and nose.

Ingestion
Unlikely route of exposure without deliberate abuse. If neat chemical is ingested, chemical burning of mouth, throat and GI tract will occur. If dilute chemical is ingested, soreness of mouth, throat and GI tract may occur together with redness and blistering.

Skin contact
May cause serious chemical burns to the skin.

Eye contact
May result in permanent eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to the physician
Contains Caustic, Silicates and Phosphates in Aqueous Solution.

DISHWASH DETERGENT ALU - SUPER CONCENTRATE

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media
The product is non-combustible. Use fire-extinguishing media appropriate for surrounding materials.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards
In contact with some metals (Aluminium, Zinc and their alloys) hydrogen gas is formed, which may form explosive mixture with air. Note - Comment refers to neat product.

Specific hazards
The product is non-combustible. If heated, corrosive vapours may be formed.

5.3. Advice for firefighters

Protective equipment for fire-fighters
Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Large spillages or uncontrolled discharges into rivers or streams must be reported to the Environment Agency or other regulatory body.

6.3. Methods and material for containment and cleaning up

Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

6.4. Reference to other sections

See sections 8 and 12

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear full protective clothing for prolonged exposure and/or high concentrations. Read and follow manufacturer's recommendations.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container. Keep containers tightly closed. Store in a cool and well-ventilated place. Keep above chemical's freezing (melting) point.

7.3. Specific end use(s)

Detergent, refer to Product Information Sheet for full details.

Usage Description
This product is suitable for cleaning food process plants, it is not suitable for direct food contact.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
POTASSIUM HYDROXIDE	WEL				2 mg/m3	

WEL = Workplace Exposure Limit.

8.2. Exposure controls

Protective equipment

Engineering measures
Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory equipment
No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

Hand protection
Rubber, neoprene or PVC.

Eye protection
Wear full-face visor or shield.

Other Protection
Wear suitable protective clothing as protection against splashing or contamination.

Environmental Exposure Controls
Do not allow the substance to contaminate surface water/ground water. See point 6, 12 &13.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Colourless.
Odour	Detergent
Solubility	Soluble in water.
Melting point (°C)	<0
Relative density	1.2 @ 20 Degrees C
pH-Value, Conc. Solution	>13
pH-Value, Diluted Solution	11.5 - 12.5 @ 1%

9.2. Other information

Storage Temperature Range -5 to + 40 Degree C

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity
The solution is strongly alkaline and reacts with strong acids with heat generation.

10.2. Chemical stability
Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions
Refer to section 10.1.

10.4. Conditions to avoid
Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials To Avoid
Strong acids. Reaction with aluminium, zinc, tin, lead or their alloys produces flammable hydrogen gas. - Note reaction relates to neat product.

10.6. Hazardous decomposition products
None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Aspiration hazard:

Inhalation
May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

Ingestion
Causes severe burns. May cause chemical burns in mouth, oesophagus and stomach. Harmful if swallowed.

Skin contact
Causes severe burns.

Eye contact
May cause permanent eye injury.

DISHWASH DETERGENT ALU - SUPER CONCENTRATE

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity
This mixture is not classified as toxic to aquatic organisms. See note 12.0

12.2. Persistence and degradability
Degradability
This product consists mainly of inorganic components for which biodegradation assessment is not applicable. The product meets the requirements of the European Detergents Regulation 648/2004 as ammended.

12.3. Bioaccumulative potential
Bioaccumulative potential
Not expected to Bioaccumulate.

12.4. Mobility in soil
Mobility:
The product is partly soluble in water. May spread in the aquatic environment.

12.5. Results of PBT and vPvB assessment
This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects
Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

General information
When handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1. Waste treatment methods
Dispose of in accordance with Local Authority requirements.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN)	1814
UN No. (IMDG)	1814
UN No. (ICAO)	1814

14.2. UN proper shipping name

Proper Shipping Name	POTASSIUM HYDROXIDE, SOLUTION

14.3. Transport hazard class(es)

ADR/RID/ADN Class	8
ADR/RID/ADN Class	Class 8: Corrosive substances.
ADR Label No.	8
IMDG Class	8
ICAO Class/Division	8

Transport Labels

DISHWASH DETERGENT ALU - SUPER CONCENTRATE

14.4. Packing group

ADR/RID/ADN Packing group	II
IMDG Packing group	II
ICAO Packing group	II

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user

EMS	F-A, S-B
Emergency Action Code	2R
Hazard No. (ADR)	80

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Legislation
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. Dangerous Preparations Directive 1999/45/EC.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

General information
This document is a Safety Data Sheet, NOT a CoSHH assessment. It is the customers' responsibilty to conduct a full CoSHH assessment, taking into account the information held within this document along with other local factors considered in a risk assessment.
The Risk and Hazard statments lisited below are the full text of abbreviations used in this document. They are not the final classification, for this refer to section 2.

Revision Comments
This is first issue.

Revision Date 5th December 2011

Risk Phrases In Full

R35	Causes severe burns.
R22	Harmful if swallowed.
R36	Irritating to eyes.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.

Hazard Statements In Full

H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H302	Harmful if swallowed.

DISHWASH DETERGENT ALU - SUPER CONCENTRATE